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## DATASHEET

Ecdysone

### Product overview

<b>Name</b>	Ecdysone
<b>Cat No</b>	HB3881
<b>Purity</b>	>95%
<b>Description</b>	Ecdysone receptor (EcR) agonist

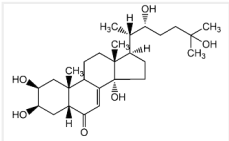
### Biological Data

<b>Biological description</b>	Steroidal prohormone of the major insect molting hormone 20-hydroxyecdysone. A member of the ecdysteroid family. Ecdysone receptor (EcR) agonist. Induces the expression of genes coding for proteins that the larva requires, and it causes chromosome puffs (sites of high expression) to form in polytene chromosomes. Plays a key role in insect development, cell proliferation, growth and apoptosis by controlling gene expression involved in moulting and metamorphosis. It acts through a heterodimeric receptor comprising the ecdysone receptor and the ultraspiracle proteins (USP). Appears in many plants mostly as a protection agent (toxins or antifeedants) against herbivorous insects. Used for controlled gene expression in scientific research, agriculture and medicine. Used for the development of selective insect growth regulators for use as environmentally benign insecticides.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	464.6
<b>Chemical structure</b>	
<b>CAS Number</b>	3604-87-3
<b>PubChem identifier</b>	0
<b>SMILES</b>	<chem>C[C@H]([C@H](O)CCC(C)(C)O)[C@H]1CC[C@@]2(O)C3=CC(=O)[C@@H]4C[C@@H](O)[C@@H](O)C[C@]4(C)[C@H]3CC[C@]12C</chem>
<b>InChiKey</b>	UPEZCKBFRMILAV-DBDKQAFGSA-N
<b>Appearance</b>	White to off-white solid